

Atlant / Atlant-1MK

DATA AS OF 2022 (standard replenishment)

"Atlant" / "Atlant-1" / "Atlant-1MK"

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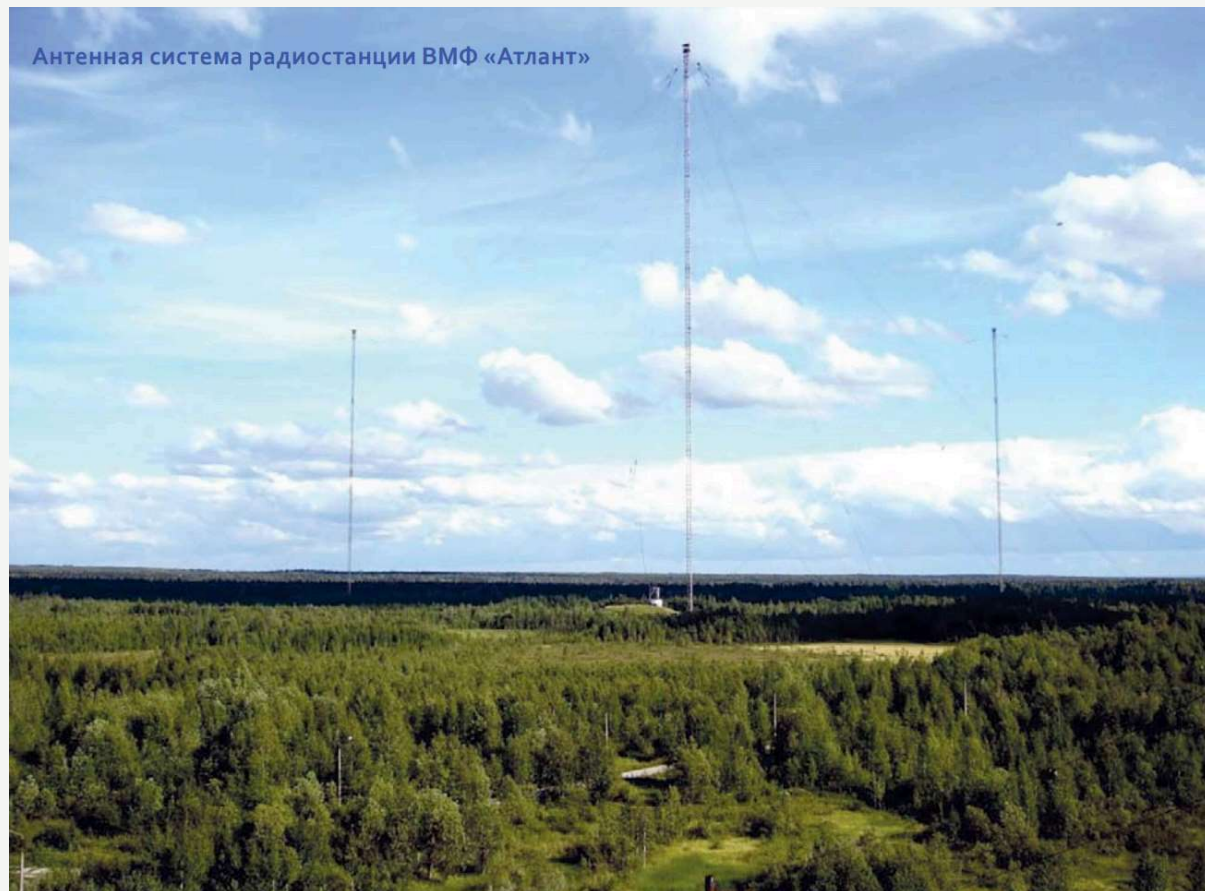
A radio station operating in the ultra-long wave range (ULW). It was used to communicate with submarines of the USSR Navy submerged in the world's oceans. The main organizational and technical solutions for the creation of such a radio station were developed and proposed by the Navy Communications Research Institute with the participation of professors of the Naval Academy, future academicians of the USSR Academy of Sciences A.I. Berg and A.N.

The first experience in the construction of powerful ULF radio stations in the Soviet Union was the installation of a captured German 1000 kW ULF radio station "Goliath" in the vicinity of the city of Gorky, which was put into operation at the end of 1952. Based on the experience gained, NPO Komintern (now JSC "RIMR") was instructed to create the first domestic ULF radio station. Already in the late 1950s, in cooperation with a number of design institutes, the 1000 kW Hercules VLF radio transmitter (chief designer K.V. Ryzhkov) was developed and manufactured; it was installed in 1962 in the Khabarovsk area. Over the next 12 years, three more VLF radio stations were built on the basis of the Hercules transmitter, installed in the areas of the cities of Vileika (1964), Arkhangelsk (1970) and Frunze (1974). By the mid-1970s, the Navy had a network of powerful VLF radio stations that provided submarine control in virtually all areas of the World Ocean.

On March 28, 1961, the USSR Minister of Defense made a decision to study the issue of providing communications and control of submarines during their operations in the Arctic zone. On March 30, based on this decision, the Commander-in-Chief of the Navy S.G. Gorshkov approved the submission for the selection of a site for the construction of a 1000 kW VLF radio station for communication with submarines (object DM-6), and on June 2, 1961, he signed order No. 0142 "On the appointment of a commission to survey the areas of the Arkhangelsk and Vologda regions." The commission was headed by Rear Admiral P.V. Galkin, head of the communications and surveillance department of the Northern Fleet. The commission conducted a survey of four sites in the Arkhangelsk and two in the Vologda regions. As a result of studying materials on the geology and geophysics of the soils of the Arkhangelsk and Vologda regions, surveying the sites on site and coordinating them with interested organizations and departments, the commission recommended for construction a site located 60 km from Arkhangelsk on the right bank of the Northern Dvina River, two kilometers from the water's edge and three kilometers from the village of Vozhderma. On May 23, 1964, at a meeting of the Central Committee of the CPSU and the Council of Ministers of the USSR, Resolution No. 445-179 "On the construction of a VLF radio station in the area of the city of Arkhangelsk" was adopted.

The first radio station "Atlant" was built in 1970. In April 1970, the radio station "Atlant" provided communication with submarines during the maneuvers "Okean-70". On April 18, 1970, the facility was accepted into service by the USSR Navy. On May 27, 1970, the Commander-in-Chief of the Navy approved the state acceptance certificate for the "Atlant" facility. After being put into operation, the radio station provided control of submarines in the seas of the Arctic Ocean and in the Atlantic. It was an element of the general system for transmitting signals of a single time, ensuring their delivery to consumers according to the established program.

In 2004, a deep modernization of the facility began, during which a significant amount of work was carried out. The cooling system became reliable, more efficient and compact, but the main modernization affected the radio transmitting device - the "heart" of the radio station. The transfer of the radio transmitting device to work in the "key" mode allowed to significantly increase the efficiency of the RPDU and reduce operating costs. In 2007, the radio station modernization was completed. The updated object with the RPDU "Atlant-1MK" again took up combat duty.



Antenna system of the radio station "Atlant" (Military History Journal. No. 7 / 2022)

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5P-10 "Puma"  
5P-10E (export version)

Fire control system for naval artillery systems. Developed by the Ametist Design Bureau based on the AK-176-MR-123-02 fire control system (by 1996, the development of the fire control system was completed; the probable start of R&D was 1986). Preparation for production - 2000-2001. Adopted into service by 2003.



Frigate pr.1135.6 Trishul of the Indian Navy with the A-190E-5P-10E complex (artillery installation variant 1), 5P-10E radar in the background on the conning tower, 2003 (photo by Przemysław Gurgurewicz, <http://pvo.guns.ru> )

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